

### **ABSTRACT OF THE DISCLOSURE**

An optical input device has a light source for emitting a light beam for reflection from a working surface. The input device further includes an optical sensing module that detects the light beam reflected from the working surface, sets a coefficient indicative of an optical property of the working surface based on the reflected light, and stores the coefficient. The input device also has a control unit coupled to the optical sensing module for reading the coefficient and outputting a feedback signal based on the coefficient, and a pulse width modulator coupled to the control unit for receiving the feedback signal and, based thereon, variably modulating the light beam generated by the light source.